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HYDRAULIC TURBINE DRAFT TUBE WITH
ENHANCED DISSOLVED OXYGEN
ABSTRACT

A hydraulic turbine has a gas distribution manifold mounted to an inside wall of a draft tube downstream from a turbine runner. The gas distribution manifold extends at least substantially around the first inside wall of the draft tube. The gas distribution manifold has a plurality of gas outlet ports for discharging oxygen into the water as the oxygen containing gas passes there around. An oxygen containing gas supply extends along a person access passageway and through the wall of the draft tube into the gas distribution manifold adjacent a man hole door.